

Appln No. 09/483,315  
Amdt date July 29, 2004  
Reply to Office action of January 29, 2004

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. - 75. (Canceled)

76. (Currently Amended) A mobile access unit for use in a localized communications system, comprising:

a video input configured to receive real-time video information [~~formatted in accordance with a first video format~~];  
a video output configured to provide real-time video information [~~formatted in accordance with a second video format~~];

a codec connected to the video input and video output that is configured to [~~convert~~] encode real-time video information received from the video input [~~encoded in the first video format to a third video format and~~, [~~to convert~~] decode encoded real-time video information and provide the decoded real-time video information to the video output [~~encoded in the third video format into the second video format~~]]; and

a transceiver, comprising:

a transmitter connected to the codec that is configured to transmit a data stream generated by the codec over an upstream wireless communication link; and

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a receiver connected to the codec that is configured to receive a data stream transmitted over a downstream wireless communication link.

77. (Currently Amended) The mobile access unit of claim 76, wherein:

the codec is configured to multiplex encoded real-time video [~~encoded in the third video format~~] with other data to generate the data stream provided by the codec to the transmitter; and

the codec is configured to demultiplex encoded real-time video [~~encoded in the third video format~~] from the data stream provided to the codec by the receiver.

78. (Currently Amended) The mobile access unit of claim 76, further comprising a heads up display [~~is~~] connected to the video output and configured to receive real-time video [~~formatted in accordance with the second video format~~].

79. (Currently Amended) The mobile access unit of claim 76, further comprising a video camera [~~is~~] connected to the video input and configured to provide a real-time video output [~~formatted in accordance with the first video format~~].

80. (Currently Amended) The mobile access unit of claim 76, further comprising:

an audio input configured to receive real-time audio information [~~formatted in accordance with a first audio format~~];

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an audio output configured to provide real-time audio information [formatted in accordance with a second audio format];

wherein the codec is connected to the audio input and the audio output;

wherein the codec is configured to [convert] encode real-time audio information received from the audio input [encoded in a first audio format to a third audio format and, [to] decode encoded [convert] real-time audio [encoded in the third audio format into the second audio format] and provide the decoded real-time audio to the audio output];

wherein the codec is configured to multiplex encoded real-time video [encoded in the third video format] with at least the real-time audio encoded by the codec [formatted in the third audio format] to generate the data stream that is provided to the transmitter; and

wherein the codec is configured to demultiplex encoded real-time video [encoded in the third video format] from the data stream provided by the receiver that also includes at least encoded real-time audio [encoded in a third audio format].

81. (Currently Amended) The mobile access unit of claim 80, further comprising a headphone set connected to the audio output and configured to receive real-time audio [formatted in accordance with the second audio format].

82. (Currently Amended) The mobile access unit of claim 80, further comprising a microphone connected to the audio input

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and configured to provide a real-time video output [formatted in accordance with the first audio format].

83. (Currently Amended) The mobile access unit of claim 76, further comprising:

a user interface input configured to receive information [provided in a first user interface format];

wherein the codec is connected to the user interface input and is configured to encode [~~convert~~] the user interface information [~~encoded in the first user interface format to a second user interface format~~];

wherein the codec is configured to multiplex encoded [~~the~~] real-time video [~~encoded in the third video format~~] with at least the encoded user interface information [~~encoded in the second user interface format~~] to form a data stream that is provided to the transmitter; and

wherein the encoded user interface information [~~encoded in the second user interface format~~] is capable of commanding a remote device.

84. (Previously Presented) The mobile access unit of claim 76, wherein the codec is implemented using at least one electronic device.

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85. (Currently Amended) A communication system, comprising:

at least one mobile access unit configured to communicate in a localized area with a base station, the mobile access unit comprising:

a video input configured to receive real-time video information [~~formatted in accordance with a first video format~~];

a video output configured to receive real-time video information [~~formatted in accordance with a second video format~~];

a mobile access unit codec connected to the video input and the video output that is configured to [~~convert~~]  
encode real-time video information received from the video input  
[encoded in the first video format to a third video format and],  
[to convert]decode encoded real-time video information [~~encoded~~  
~~in the third video format into a second video format~~] and  
provide the decoded real-time video information to the video  
output; and

a transceiver, comprising:

a mobile access unit transmitter connected to the mobile access unit codec that is configured to transmit a data stream generated by the codec over an upstream wireless communication link; and

a mobile access unit receiver connected to the mobile access unit codec that is configured to receive a data stream transmitted over a downstream wireless communication link; and

a fixed base station, comprising:

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memory containing a registry of mobile access units within the localized area;

a transceiver, comprising:

a base station transmitter that is configured to transmit a data stream generated over the downstream wireless communication link; and

a base station receiver configured to receive a data stream transmitted over the upstream wireless communication link.

86. (Currently Amended) The communications system of claim 85, further comprising:

a base station router connected to the base station transceiver;

wherein the mobile access unit codec:

is configured to multiplex encoded real-time video [~~encoded in the third video format~~] with other data to generate the data stream provided to the mobile access unit transmitter; and

is configured to demultiplex encoded real-time video [~~encoded in the third video format~~] from the data stream provided to the mobile access unit codec by the mobile access unit receiver; and

wherein the base station router:

is configured to multiplex encoded real-time video [~~encoded in the third video format~~] with other data to generate the data stream provided by the base station router to the base station transmitter; and

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is configured to demultiplex encoded real-time video [~~encoded in the third video format~~] from the data stream provided to the base station router by the base station receiver.

87. (Currently Amended) The communication system of claim 86, further comprising:

a network bridge connected to the base station router;  
and

wherein the base station router is configured to receive encoded real-time video [~~encoded in the third video format~~] from the base station receiver and route the encoded real-time video [~~encoded in the third video format~~] to the base station transmitter or to the network bridge.

88. (Currently Amended) The communication system of claim 87, wherein:

the mobile access units further comprise:

an audio input configured to receive real-time audio information [~~formatted in accordance with a first audio format~~];

wherein the mobile access unit codec is connected to the audio input;

wherein the mobile access unit codec is configured to [~~convert~~] encode real-time audio information [~~encoded in a first audio format to a third audio format~~];

wherein the mobile access unit codec is configured to multiplex encoded real-time video [~~encoded in the third video format~~] with at least the encoded real-time audio [~~formatted in~~

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~~the third audio format~~] to generate the data stream that is provided to the transmitter; and

wherein the fixed base station router is configured to demultiplex at least encoded real-time video [~~encoded in the third audio format~~] and real-time audio [~~encoded in the third audio format~~] from the data stream received from the base station receiver; and

wherein the base station router is configured to route encoded real-time audio [~~encoded in the third audio format~~] to the base station transmitter or to the network bridge.

89. (Currently Amended) The communication system of claim 88, wherein the router is configured to route encoded real-time video [~~encoded in the third video format~~] independent of the encoded real-time audio [~~encoded in the third audio format~~].

90. (Currently Amended) The communication system of claim 88, further comprising:

a device connected to the network bridge via a network;  
a microphone connected to the audio input of one of the mobile access units;

wherein the microphone is configured to generate real-time audio including voice commands [~~in the first audio format~~];

wherein the device is configured to receive encoded real-time audio information [~~encoded in the third audio format~~] from the fixed base station via the network;

wherein the device is configured to identify voice commands [~~in real time audio encoded in the third audio format~~]; and

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wherein the device is configured to respond to [the] identified voice commands.

91. (Currently Amended) The communication system of claim 90, wherein:

the base station router is configured to route real-time audio encoded in the third audio format to the [~~to the~~] base station transmitter or to the network bridge; and

encoded real-time audio [~~encoded in the third user interface format~~] that is received by the network bridge is sent to at least one device via the network.

92. (Currently Amended) The communication system of claim 86, wherein:

the mobile access units further comprises:

a[~~n~~] user interface input for receiving user input [~~encoded in a first user input format~~];

wherein the mobile access unit codec is connected to the user interface input and is configured to [~~convert~~] encode the user interface information received from the user interface input [~~encoded in the first user interface format to a second user interface format~~];

wherein the mobile access codec is configured to multiplex the encoded real-time video [~~encoded in the third video format~~] with at least the encoded user interface information [~~encoded in the second user interface format~~] to form a data stream that is provided to the mobile access unit transmitter.

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93. (Currently Amended) The communication system of claim 92, wherein the base station router is configured to independently route encoded real-time video information [~~encoded in the third video format~~] and encoded user interface information [~~encoded in the second user interface information format~~].

94. (Currently Amended) The communication system of claim 92, further comprising:

a device connected to the network bridge via a network; wherein the fixed base station router is configured to demultiplex encoded user interface information [~~encoded in the third user interface format~~] from the data stream provided to the base station router by the base station transceiver;

wherein the router is configured to route encoded user interface information [~~encoded in the third user interface format~~] received from the base station router to the base station transmitter or the network bridge;

wherein the device is configured to receive encoded user interface information [~~encoded in the third user interface format~~] from the fixed base station via the network; and

wherein the device is configured to respond to encoded user interface information [~~encoded in the third user interface format~~].

95. (Currently Amended) The communication system of claim 86, wherein:

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the base station router is configured to multiplex the encoded real-time video [~~encoded in the third format~~] that is received by the base station router in a data stream generated by the first mobile access unit into a data stream that is provided to the base station transmitter; and

the base station transmitter is configured to transmit the data stream generated by the base station codec that contains at least the encoded real-time video [~~encoded in the third format~~] from the data stream generated by the first mobile access unit to a second[~~third of the~~] mobile access unit[s].